

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000159

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.⁷ H04R1/40, H04S7/00, H04S5/02, H04R3/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int. Cl.⁷ H04R1/40, H04S7/00, H04S5/02, H04R3/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Jitsuyo Shinan Toroku Koho	1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-41897 A (Pioneer Electronic Corp.), 19 February, 1993 (19.02.93), & US 5233664 A1 & GB 2259426 A & DE 4205037 A1	1-8
Y	JP 6-261385 A (Matsushita Electric Industrial Co., Ltd.), 16 September, 1994 (16.09.94), (Family: none)	1-8
Y	JP 6-225379 A (Matsushita Electric Industrial Co., Ltd.), 12 August, 1994 (12.08.94), (Family: none)	1-8

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

* "A" document defining the general state of the art which is not considered to be of particular relevance

* "E" earlier application or patent but published on or after the international filing date

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* "P" document published prior to the international filing date but later than the priority date claimed

* "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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* "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

* "&" document member of the same patent family

Date of the actual completion of the international search

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PCT/JP2005/000159

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-184488 A (Matsushita Electric Industrial Co., Ltd.), 30 June, 2000 (30.06.00), (Family: none)	1-8
A	JP 2003-510924 A (1... IPR LTD.), 18 March, 2003 (18.03.03), & GB 9922919 D & WO 2001/23104 A2 & EP 1224037 A	1-8
A	JP 9-121400 A (Nippon Hosokyo Kyokai), 06 May, 1997 (06.05.97), (Family: none)	1-8
A	JP 2002-345077 A (Kansai TLO Kabushiki Kaisha), 29 November, 2002 (29.11.02), (Family: none)	1-8
A	JP 6-209500 A (Sanyo Electric Co., Ltd.), 26 July, 1994 (26.07.94), (Family: none)	1-8
A	JP 5-276591 A (Matsushita Electric Industrial Co., Ltd.), 22 October, 1993 (22.10.93), (Family: none)	1-8
A	JP 6-62488 A (Pioneer Electronic Corp.), 04 March, 1994 (04.03.94), & GB 2273848 A	1-8
A	JP 2004-531125 A (1... IPR LTD.), 07 October, 2004 (07.10.04), & WO 2002/078388 A & GB 0200291 D	1-8
A	JP 2004-172661 A (Sony Corp.), 17 June, 2004 (17.06.04), (Family: none)	1-8
A	JP 2004-363697 A (Yamaha Corp.), 24 December, 2004 (24.12.04), (Family: none)	1-8
A	JP 2004-350173 A (Nippon Hosokyo Kyokai), 09 December, 2004 (09.12.04), (Family: none)	1-8
A	JP 2003-23689 A (Sony Corp.), 24 January, 2003 (24.01.03), (Family: none)	1-8

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PCT/JP2005/000159

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 9-233591 A (Sony Corp.), 05 September, 1997 (05.09.97), (Family: none)	1-8
A	JP 2004-193698 A (Sony Corp.), 08 July, 2004 (08.07.04), (Family: none)	1-8
A	JP 2004-172703 A (Sony Corp.), 17 June, 2004 (17.06.04), (Family: none)	1-8
A	JP 2004-336530 A (Yamaha Corp.), 25 November, 2004 (25.11.04), (Family: none)	1-8
A	JP 6-269096 A (Olympus Optical Co., Ltd.), 22 September, 1994 (22.09.94), (Family: none)	1-8
A	JP 2005-12765 A (Yamaha Corp.), 13 January, 2005 (13.01.05), (Family: none)	1-8
A	JP 2005-80079 A (Sony Corp.), 24 March, 2005 (24.03.05), (Family: none)	1-8
A	JP 2005-27020 A (Kabushiki Kaisha FPS), 27 January, 2005 (27.01.05), (Family: none)	1-8